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REPORT NO. 10

## Cotton Fiber and Processing Test Results

CROP of

1974



Agricultural Marketing Service  
U.S. DEPARTMENT OF AGRICULTURE  
Memphis, Tenn. 38122 December 20, 1974

These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.<sup>1/</sup> These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

<sup>1/</sup> Summary of Cotton Fiber and Processing Test Results, Crop of 1973, USDA, AMS, Cotton Division, May 1974.

## COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1974

### Discussion of Test Results

Cotton Division laboratories of the Agricultural Marketing Service, USDA, report fibers tested from Southwest short staple samples, to date, are shorter, less uniform, finer and stronger at zero gage tests than through the same period a year ago. Fiber strength is weaker at 1/8" gage tests. Picker and card waste is higher than a year ago. Yarns spun from these samples are weaker and have lower appearance grades. Yarn imperfections are higher than a year ago. Average spinning potential yarn number is lower.

Averages for all medium staple samples tested through December 13 show slightly finer fibers than last season at this time. Yarns spun from these samples showed weaker yarn strength and fewer imperfections. All other qualities tested about the same as a year ago.

Medium staple samples tested from the Southeast showed fiber test results to be about the same as a year ago at this time. Yarns spun from these samples showed about the same qualities except imperfections were fewer than a year ago.

South Central medium staple samples tested to date show finer and stronger fibers at 1/8" gage test than a year ago. Picker and card waste is higher than last season. Other yarn qualities were about the same as a year ago.

Medium staple samples tested from the Southwest show fiber strength to be stronger with all other fiber properties about the same as a year ago. Yarns spun from these samples showed lower appearance grades and fewer imperfections.

Medium staple samples tested from the West showed fibers to be shorter and weaker at both zero and 1/8" gage tests. Yarn quality was about the same except for fewer imperfections this season as compared to a year ago.

Averages for all long staple samples showed approximately the same results as a year ago, except for finer fibers. Yarns spun from these samples averaged lower appearance grades for both carded and combed yarns than last season. Yarn imperfections were higher for carded yarns than a year ago.

Long staple samples tested from the Southeast showed longer, less uniform, and finer fiber properties as a year ago. Comber waste is higher. Yarn appearance grades were lower for both carded and combed yarns. Imperfections were more for carded yarns than a year ago.

South Central long staple samples tested to date showed finer and weaker fiber strength at 1/8" gage test than a year ago. Comber waste is higher. Yarns spun from these samples showed lower appearance grades for both carded and combed yarns.

Long staple samples tested from the West showed approximately the same fiber properties as a year ago at this time. Yarns spun from these samples showed weaker yarn strength for both carded and combed yarns than a year ago. Yarn appearance grades were lower for carded yarns. Imperfections were fewer for carded yarns than a year ago.

Extra long staple, American Pima, samples from the West are finer and stronger at zero gage than last season. Both picker and card waste and comber waste are lower than last season. Yarns spun from these samples show lower appearance grades.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through December 13, 1974

Staple group Area, and Crop year	Lots tested	No.	Fiber test results						Processing test results					
			Fibrograph		Mike fiber strength		S A nonlint		P & C waste		Yarn quality		Spin. Potent.	
			2.5% span	50/2.5 unif.	Zero gage	1/8" gage	G/tex	Pct.	Pct.	Pct.	Skein str.	Appearance	Impair- fections	No. Yarn No.
Short Staple:														
Southwest	37	0.97	46	4.5	84	21	3.4	6.5	93	109	18	109	18	43
	14	0.94	44	4.2	87	20	3.5	7.2	85	97	20	97	20	38
Medium Staple:														
Southeast	42	1.08	46	4.5	82	22	3.6	6.2	103	106	22	106	22	62
	46	1.09	45	4.4	81	22	3.4	6.4	102	104	19	104	19	61
South Central	136	1.10	45	4.5	82	22	3.1	5.8	102	108	19	108	19	62
	111	1.10	44	4.1	83	23	3.1	6.3	105	104	18	105	18	63
Southwest	37	1.07	45	4.4	82	22	2.8	5.7	97	100	25	100	25	57
	32	1.07	44	4.3	84	22	3.0	6.1	100	92	20	92	20	58
West	48	1.13	47	4.6	94	26	2.2	5.4	119	106	18	106	18	68
	55	1.11	46	4.5	92	25	2.4	5.8	117	103	16	103	16	68
U. S. Average	263	1.10	45	4.5	84	23	3.0	5.8	103	106	20	106	20	62
	244	1.10	45	4.3	85	23	3.0	6.1	98	102	18	102	18	63
Significant difference	2/		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3	

1/ Based on a limited number of samples of modal quality  
 2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 1.--Cotton:

Averages of fiber and processing tests from selected gin points in the United States through December 13, 1974 (Continued)

Staple group, Area, and Crop year	Lots	Fiber Test Results						Processing Test Results						
		Span	Length	Strength		SA Non- lint	P&C Waste	Comber Waste		Strength		Imperfctns	SPY	
				Unif	gage			carded	combed	carded	combed			
No.	No.	In.	Pct.	Rdg.	Mpsi	G/tx	Pct.	Pct.	Pct.	Lbs.	Lbs.	Indx	No.	No.
<u>Long Staple:</u>														
		16	1.12	45	4.6	82	23	3.9	8.7	16.9	104	120	117	124
Southeast	1973	14	1.15	43	4.0	82	23	3.8	8.5	17.3	105	123	105	113
	1974												20	20
South Central	1973	6	1.14	44	4.3	86	24	3.8	8.8	17.3	108	126	117	127
	1974	6	1.15	44	4.0	85	23	4.0	8.8	18.0	105	125	102	113
West	1973	11	1.16	45	3.8	92	27	2.4	7.2	14.9	136	152	99	109
	1974	9	1.16	45	3.7	92	26	2.5	7.2	14.7	128	148	94	106
U. S. Average	1973	33	1.14	45	4.3	86	24	3.4	8.2	16.3	115	132	111	120
	1974	29	1.15	44	3.9	85	24	3.4	8.2	16.7	112	131	101	111
<u>Array</u>														
<u>American Pima</u>														
<u>20's Combed Yarn</u>														
<u>Extra Long Staple:</u>														
West	1973	8	1.46	31	3.9	99	33	2.8	7.8	18.0	65	122	1	1
	1974	7	1.46	30	3.7	102	32	2.7	7.2	17.1	64	111	2	2
<u>Significant Difference 2/</u>														
0.02 2 0.2 2 1 0.5 0.5 0.5 4(22s) 4(22s) 2(50s) 5 5 2 2 3														

1/ Based on a limited number of samples of modal quality  
2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1974

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1974

Production Area, Classification & Sample Number				Fiber Test Results								Processing Test Results - Carded Yarns								
				Digital Fibrograph		Fiber Strength Zero Gage		S.A. Elongat'n 1/8"		Color Raw Stock Waste		Strength 22s or 27 tex		Elongation 22s or 27 tex		Appearance Index 50s or 22s or 27 tex		Imperfect's 22s or 27 tex		
No	Grade	Staple	2.5% span	Unif.	Mike	Zero Gage	1/8"	Non- Lint	Raw Stock	P & C Waste	22s or 27 tex	50s or 27 tex	22s or 27 tex	50s or 27 tex	22s or 27 tex	50s or 27 tex	No	No		
32s	In	Pct	Rds	32s	In	Mpsi	G/tex	Pct	No	Pct	Lbs	Lbs	Pct	Lbs	Pct	Lbs	Pct	No	No	
SOUTHEAST AREA										SOUTHEAST AREA										
ALABAMA										COKE	417									
3 SLM	PRATTVILLE	41	35	1.13	44	4.2	90	24	5.6	2.5	2	3	5.6	115	41	6.2	4.5	100	80	18
3 LM	ST CLAIR	51	34	1.09	45	4.5	79	23	7.0	213	2	3	7.2	100	33	6.2	4.7	100	80	18
3 SLM LT SP	TUSKEGEE	42	34	1.08	43	4.3	78	22	7.4	DELTAPINE 16	2	3	6.2	101	35	6.3	4.7	110	80	19
4 LM	GEORGIA	51	34	1.07	41	4.4	77	20	6.0	COKE 201	4	3	9.5	81	24	5.5	3.2	90	60	23
3 LM	ALLENTOWN	51	34	1.06	47	4.6	81	23	6.4	DIXIE KING 11	3	3	7.2	104	36	6.3	4.5	110	90	20
3 LM	BCSTWICK	51	34	1.02	43	4.1	79	21	6.1	DELTAPINE 16	2	3	7.8	88	28	5.9	3.9	100	80	19
2 SLM	NORTH CAROLINA	41	36	1.11	45	4.3	79	22	6.0	MCNAIR 612	2	2	7.6	108	37	6.7	4.6	90	80	39
3 SLM LT SP	LAURINBURG	42	35	1.10	45	3.9	78	22	6.5	5.6	3	3	8.0	102	35	6.5	4.8	90	80	38
3 LM	SHELBY	42	35	1.08	45	4.4	82	22	6.3	COKE 201	2	3	6.2	104	36	6.1	4.7	110	90	27
3 LM PLUS	SOUTH CAROLINA CALHOUN FALLS	50	35	1.11	46	4.4	81	22	6.3	COKE 201	2	3	7.4	104	35	6.5	4.7	100	80	25
SOUTH CENTRAL AREA										SOUTH CENTRAL AREA										
ARKANSAS										DELTAPINE 16										
3 LM	ALTHEIMER	51	35	1.11	42	3.4	85	21	7.3	4.3	3	2	6.1	111	39	7.0	5.2	110	80	18
3 SLM	DUMAS	41	35	1.06	44	3.4	86	21	5.9	2.6	2	2	6.0	102	32	6.4	4.2	110	80	22

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1974--(Continued)

Production Area, Classification				Fiber Test Results						Processing Test Results - Carded Yarns					
Sample Number		Digital Fibrograph	Mike Unif.	Fiber Strength	Elongat'n 1/8"	S.A. Non-Int.	Color Raw Stock	P & C Waste	Strength	Elongation	Appearance Index	Imperfect's	Spin. Potential		
No	Grade	Stpyle	2.5% span	Zero Gage	Gage	Non-Int.	Raw Stock	Waste	22s or 50s or 27 tx	22s or 50s or 27 tx	22s or 50s or 27 tx	No	No		
Name & Code		32S	In	Pct	Reg	No	Pct	Pct	No	Pct	Pct	No	No		
SOUTH CENTRAL AREA--(Continued)															
ARKANSAS--(Continued)															
EUDORA	3 SLM	41 35	1.10	44	4.3	84	22 6.9	3.0	2	2	7.4	106 35	6.7	4.5	100
LEACHVILLE	3 SLM	41 35	1.06	42	3.3	82	21 6.1	3.6	3	5.9	100 31	6.7	4.4	90	70
LEACHVILLE	3 SLM	41 35	1.10	42	3.6	79	23 7.1	3.7	2	3	6.1	103 35	6.7	4.8	100
OSCEOLA	3 LM	51 35	1.07	39	2.9	82	22 5.8	3.5	3	2	7.7	92 29	5.8	4.2	100
WILSON	3 SLM LT SP	42 35	1.13	43	3.5	80	22 7.4	3.9	2	2	7.2	113 40	7.5	5.3	110
WYNNE	3 LM	51 35	1.11	41	3.4	81	23 8.0	3.5	2	2	6.7	113 38	7.3	5.1	110
LOUISIANA															
LAKE PROVIDENCE	3 SLM	41 35	1.12	44	4.1	77	22 7.1	3.8	1	2	6.6	111 38	7.2	5.2	120
LAKE PROVIDENCE	3 LM	51 35	1.09	42	3.6	80	22 6.2	3.9	2	2	7.3	98 31	6.4	4.3	90
MONROE	3 SLM	41 35	1.11	45	3.7	81	22 7.5	2.0	3	2	4.8	108 37	7.3	5.2	100
SHREVEPORT	3 SLM	41 35	1.12	44	4.5	77	23 7.2	2.7	3	3	5.6	106 38	6.4	5.0	110
WINNSBORO	3 LM	51 35	1.07	45	4.2	83	22 6.0	3.7	3	2	7.4	93 32	5.6	4.3	100

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1974--(Continued)

Production Area, Classification				Fiber Test Results								Processing Test Results - Carded Yarns								Spin-Potential				
Sample Number		Digital Fibrograph		Fiber Strength		Elong. in 1/8"		S. A. Non-Lint		Color Stock		P & C Waste		Strength		Elongation		Appearance Index		Imperfect's		Spin-Potential		
No	Grade	Stple	2.5% span	Unif.	Mike Gage	Zero Gage	1/8" Gage	Gra	Yel	Raw Stock	Waste	22s or 20s	22s or 20s	22s or 20s	22s or 20s	22s or 20s	22s or 20s	No	No	No	No	No	No	
SOUTH CENTRAL AREA--(Continued)																								
MISSISSIPPI																								
GLENDORA	3 LM	35	1.06	44	3.4	83	22	5.9	3.7	3	2	6.9	101	34	6.1	4.7	100	80	29	24	59			
INDIANOLA	3 SLM	35	1.08	44	4.4	82	23	7.3	3.0	2	2	6.9	102	32	6.7	4.3	100	80	14	11	57			
INDIANOLA	3 LM	34	1.06	45	4.0	81	22	6.1	4.3	3	2	6.7	106	35	6.1	4.2	110	80	17	14	63			
LELAND	3 LM	35	1.09	46	4.0	82	21	6.1	7.3	3	2	9.2	108	37	6.8	4.5	100	70	29	21	64			
LYON	3 LM	35	1.07	45	3.7	79	23	6.4	3.9	2	2	5.8	103	33	6.6	4.5	110	90	25	16	60			
NITTA YUMA	3 SLM	41	35	1.09	43	4.2	87	23	6.2	2.9	2	6.1	103	34	6.2	4.6	100	80	22	20	57			
TRIBBETT	2 LM PLUS	50	35	1.09	46	4.6	92	22	5.4	3.5	2	3	7.2	100	33	5.2	3.8	110	90	19	14	56		
WATER VALLEY	3 SLM	41	35	1.06	42	3.3	79	22	7.4	2.5	1	2	6.1	107	35	7.5	4.9	110	80	17	16	62		
MISSOURI	BELL CITY	3 SLM LT SP	42	35	1.11	42	3.7	81	23	6.9	3.3	3	5.8	103	35	6.9	4.7	110	80	19	15	62		
SENATH	3 SLM LT SP	42	35	1.06	43	3.0	73	21	7.0	2.8	4	3	6.7	95	31	6.7	4.7	100	80	23	18	56		
TENNESSEE	MILLINGTON	3 LM	35	1.07	44	3.5	82	21	6.4	3.2	2	3	6.4	104	36	6.9	4.7	110	90	19	15	65		

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1974--(Continued)

Production Area, Classification		Fiber Test Results										Processing Test Results - Carded Yarns										
		Sample Number		Digital Fibrograph		Fiber Strength		S.A. Elongat'n 1/8"		Color		P & C Waste		Strength		Elongation		Appearance Index		Imperfect's		
No	Grade	Staple span	Unif.	Mike Gage	Zero Gage	1/8"	Gage	Non-Lint	Raw Stock	Waste	22s or 20s	50s or 22s	50s or 22s	27 tx	12 tx	27 tx	12 tx	27 tx	12 tx	27 tx	12 tx	
32s	In	Pct	In	Rdg	Pct	Mpsi	G/tex	Pct	No	Pct	No	Pct	No	Pct	Lbs	Pct	Lbs	Pct	No	No	No	
SOUTHWEST AREA																						
NORTHWEST TEXAS																						
LUBBOCK	1 LM	51 1/2	35	1.14	4.2	3.9	86	23	5.9	4.9	3	7.3	105	35	6.0	4.1	80	60	40	34	50	
LUBBOCK	1 LM	51 1/2	35	1.11	4.2	3.6	82	22	6.2	3.6	3	7.2	104	34	6.3	4.5	100	70	22	19	58	
WEST AREA																						
ARIZONA																						
BUCKEYE	3 SLM	41	35	1.08	46	5.1	95	22	4.9	3.4	2	6.3	95	31	5.0	3.6	120	90	15	10	52	
MARICOPA	3 LM	51	36	1.14	44	4.6	80	23	6.8	3.0	4	5.4	107	38	6.9	4.8	100	80	18	15	65	
PALO VERDE	2 LM	51 1/2	35	1.06	45	5.0	91	24	5.4	2.7	2	6.2	94	32	5.4	4.3	110	80	18	12	47	
PICACHO	3 LM	51	35	1.07	42	4.0	86	23	6.0	4.8	3	6.4	110	38	6.3	4.8	110	90	17	13	62	
CALIFORNIA																						
BAKERSFIELD	3 SLM	41	36	1.12	47	4.6	100	26	5.3	2.8	2	6.0	129	47	6.1	4.8	100	90	16	10	76	
BAKERSFIELD	3 SLM	41	35	1.10	47	4.5	93	27	5.2	2.6	1	5.6	3/	118	42	5.7	4.4	100	80	15	12	64
CHONCHILLA	2 SLM	41	36	1.12	46	3.6	97	27	5.2	2.7	2	5.8	135	50	6.0	4.8	90	80	20	16	81	
CORCORAN	3 SLM	41	35	1.09	47	4.4	91	27	5.3	2.5	2	5.0	123	46	6.1	4.4	90	80	18	15	71	

\* 100 percent selected for tests, less than 100 percent in the area  
 1/ Reduced from 41 because of bark  
 2/ Reduced from 41 because of grass  
 3/ Cotton stuck to processing rolls

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1974--(Continued)

Production Area, Classification				Fiber Test Results								Processing Test Results - Carded Yarns										
Sample Number		Digital Fibrograph		Fiber Strength		S.A. Elong-		Color Stock		Strength		Elongation		Appearance Index		Imperfect's		Spin. Potential				
No	Grade	Staple span	2.5% span	Mike	Zero 1/8"	Gage	Elon-	Raw Stock	P & C	22s or 27	22s or 27	22s or 27	22s or 27	22s or 27	22s or 27	22s or 27	22s or 27	22s or 27				
Name & Code	Sample	2.5% span	2.5% span	Mike	Zero 1/8"	Gage	Elon-	Raw Stock	P & C	22s or 27	22s or 27	22s or 27	22s or 27	22s or 27	22s or 27	22s or 27	22s or 27	22s or 27				
WEST AREA--(Continued)				In	Pct	Rdg	Mpsi	G/tex	Pct	No	Pct	No	Pct	Lbs	Pct	No	No	No				
CALIFORNIA--(Continued)																						
1	HANFORD	41	35	1.10	46	4.4	96	25	4.9	1.6	2	4	6.4	123	44	5.4	4.4	110	90	13	10	71
2	SLM	41	36	1.13	46	4.2	95	27	5.2	3.1	2	3	6.2	126	47	5.6	4.6	100	80	23	14	67
3	LOST HILLS	41	36	1.13	46	4.8	95	26	5.1	2.6	1	2	6.8	124	46	6.0	4.4	110	90	14	10	70
2	SLM	41	36	1.13	47	4.6	96	26	5.2	2.3	1	3	6.6	126	47	5.7	4.5	100	80	19	12	77
3	STRATFORD	31	35	1.10	47	4.2	98	29	5.1	2.3	1	4	4.1	127	46	5.9	4.4	120	100	12	9	73
2	SLM	41	36	1.15	45	4.0	93	25	5.6	2.5	1	2	5.9	129	47	6.3	4.6	100	80	18	14	83
3	TULARE	41	35	1.10	47	4.3	93	27	5.0	2.5	2	2	5.7	125	46	5.9	4.4	100	90	18	13	73
2	SLM	41	35	1.08	48	4.4	99	27	5.0	1.5	2	3	5.3	127	47	6.3	4.7	100	90	16	12	72
2	WESTMORLAND	31	35	1.07	45	4.8	92	27	5.8	2.0	1	3	5.4	108	35	5.8	4.4	110	80	14	11	51

1/ Cotton stuck to processing rolls

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1974

Production Area, Classification		Fiber Test Results						Processing Test Results - Carded Yarns						
Sample Number	Grade	Digital Fibrograph		Fiber Strength		S.A. Non-Lint	Color	P & C and Comber		Elongation		Appearance Index	Imperfect's	
		2.5% span	2.5% span	Mike Zero	1/8" Gage			22s or 27 tx	22s or 27 tx	50s or 27 tx	50s or 27 tx			
No	Name & Code	32s	32s	In	Pct	Mpsi	Rdg	G/tex	Pct	Pct	Pct	Pct	No	No
<b>SOUTHEAST AREA</b>														
GEORGIA COMER	41	35	1.14	42	4.02	83	22	6.4	3.07	1	3	8.9	100 PERCENT	
3 SLM									*	17.0	119	42	4.7 5.1	
<b>NORTH CAROLINA</b>														
DUNN	41	35	1.12	41	3.06	82	22	6.6	3.05	2	3	8.0	100 PERCENT	
3 SLM									*	18.7	122	42	4.4 5.2	
<b>SOUTH CENTRAL AREA</b>														
MISSISSIPPI MORGAN CITY	51	36	1.14	42	3.02	85	24	6.3	6.1	2	2	10.5	100 PERCENT	
3 LM									*	18.1	126	44	6.3 6.8	
<b>WEST AREA</b>														
NEW MEXICO BERINO	41	37	1.10	44	3.05	90	25	5.6	2.03	1	2	7.5	100 PERCENT	
3 SLM									*	16.7	140	51	4.5 5.0	
<b>WEST TEXAS</b>														
EL PASO	41	37	1.16	45	4.00	96	27	5.1	2.07	2	2	7.1	100 PERCENT	
2 SLM									*	14.8	150	55	4.7 4.8	

\* Comber Waste and Combed Yarn Data

Table 5--Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1974

Production Area, Classification & Sample Number		Fiber Test Results										Processing Test Results - Combed Yarns																				
		Array Length		Fiber Strength		Elongation 1/8"		S.A. Non-Lint		Color Raw Stock		P & C Waste		Comber Waste		Strength		Elongation		Appearance Index		Imperfect's										
No	Grade	Stple	UQL	CV	Mile	Zero	1/8"	Gage	Gage	Gra	Non-Lint	Gra	Yel	Gra	Yel	12 tx	7 tx	12 tx	7 tx	12 tx	7 tx	50s or 80s or 12 tx	7 tx	No	No	No	No	No	No			
WEST AREA																																
ARIZONA																																
BOWIE	1	4	44	1.48	28	3.4	102	3.3	7.5	3.2	4	6	7.3	16.6	63	33	5.5	4.4	110	110	1	1	1									
CASA GRANDE	1	4	44	1.48	27	4.0	103	32	6.4	3.5	4	5	7.1	17.0	68	36	5.4	4.5	120	110	1	1	1									
QUEEN CREEK	1	4	44	1.46	30	4.1	103	32	6.5	2.7	4	5	7.4	16.3	65	36	5.5	4.7	110	120	2	1	1									
NEW MEXICO																																
LAS CRUCES	1	3	44	1.46	29	3.9	103	3.3	6.6	1.6	4	5	7.1	16.6	65	35	5.7	4.8	110	110	2	1	1									
WEST TEXAS	2																															
FABENS	4	4	44	1.46	32	3.2	101	30	7.1	2.8	4	5	7.0	17.6	64	34	5.5	4.8	110	110	3	1	1									

